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June 22, 2006

Mail Stop Certificate of Corrections Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: U.S. Patent No.: 7,031,475 B2  
Issued: April 18, 2006  
Inventor: Shinji Kuraoka et al.  
Our Docket: 36502

Sir:

A Certificate of Correction under 35 U.S.C. 254 is hereby requested to correct Patent Office printing errors in the above-identified patent. Enclosed herewith is a proposed Certificate of Correction (Form No. PTO-1050) for consideration along with appropriate documentation supporting the request for correction.

It is requested that the Certificate of Correction be completed and mailed at an early date to the undersigned attorney of record. The proposed corrections are obvious ones and do not in any way change the sense of the application.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

Michael W. Garvey

Name of Attorney for Applicant(s)

Signature of Attorney

June 22, 2006

Date

JUN 29 2006

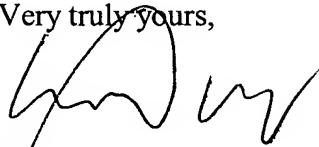
U.S. Patent No.: 7,031,475 B2

Issued: April 18, 2006

Atty. Docket No.: 36502

Page 2 of 2

We understand that a check is not required since the errors were on the part of the Patent and Trademark Office in printing the patent.

Very truly yours,  
  
Michael W. Garvey

MWG:alw

Enclosures

JUN 29 2006

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

PATENT NO. : 7,031,475 B2 PAGE 1 OF 1  
DATED : April 18, 2006  
INVENTOR(S) : Shinji Kuraoka et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Please delete the paragraph at column 3, lines 31-45 in its entirety.

Please insert the following paragraph immediately after the paragraph at column 3, line 60:

--The communication unit 31, the control unit 37, and the microcomputer 38  
are housed in the first housing 12.--

Column 8, line 5, please delete "ouputting", and insert therefor --outputting--.

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PATENT NO. 7,031,475 B2

No. of additional copies

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## DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring now to FIGS. 1 to 5 of the drawings, there is shown a preferred 5 embodiment of the all-in-one headset according to the present invention.

The all-in-one headset 10 is shown in FIGS. 1 and 2 as comprising a head band 11, a first housing 12 arranged at one end of the headband 11, a boom member 13 stretching forward from the first housing 12, a second housing 14 arranged at the leading edge of the boom member 13, and a battery housing 15 arranged at the other end of the head 10 band 11.

As shown in FIG. 3, the all-in-one headset 10 according to the present invention electrically comprises a communication unit 31 for establishing radio contact with other persons, a microphone 32 for converting the user's voice into an electric signal transmitted to the communication unit 31, an ear speaker 33 for converting electric 15 signal indicative of communication partners' voices received by the communication unit 31 into a sound, a battery 34 powering the communication unit 31, an operating panel 35 for outputting operation signals to the communication unit 31, a microcomputer 36 for controlling the communication unit 31 based on the operation signals output from the operating panel 35, an indicating unit 37 for showing the operating states of the 20 communication unit 31, and a control unit 38 for controlling the indicating patterns of the indicating unit 37:

The communication unit 31, the control unit 37, and the microcomputer 38 are housed in the first housing 12.

The microphone 32 is housed in the second housing 14 arranged at the leading 25 edge of the boom member.

The ear speaker 33 is mounted on the inside wall of the first housing 12, and the operating panel 35 is mounted on the outside wall of the first housing 12.

The battery 34 is housed in the battery housing 15 arranged at the other end on the head band 11.

The indicating unit 38 is shown in FIG. 4 to be embedded in a part visible by the user of the circumferential wall of the second housing 14.

As shown in FIG. 3, the communication unit 31 housed in the first housing 12 includes a modulator 41 modulating a sub carrier by the electric signal from the microphone 32, a transmitter 42 and a transmission antenna 43 transmitting the modulated sub carrier, a receiving antenna 44 and a receiver 45 receiving the sub carrier 35 carrying the electric signal indicative of the communication partners' voice, and a demodulator 46 demodulating the electric signal indicative of the communication

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Amendments to the Specification:

Please replace the paragraph which appears at page 4, lines 11-21 with the following amended paragraph:

As shown in FIG. 3, the all-in-one headset 10 according to the present invention electrically comprises a communication unit 31 for establishing radio contact with other persons, a microphone 32 for converting the user's voice into an electric signal transmitted to the communication unit 31, an ear speaker 33 for converting electric signal indicative of communication partners' voices received by the communication unit 31 into a sound, a battery 34 powering the communication unit 31, an operating panel 35 for outputting operation signals to the communication unit 31, a microcomputer 36 38 for controlling the communication unit 31 based on the operation signals output from the operating panel 35, an indicating unit 37 36 for showing the operating states of the communication unit 31, and a control unit 38 37 for controlling the indicating patterns of the indicating unit 37 36.

Please replace the paragraph which appears at page 4, lines 30-31 with the following amended paragraph:

The indicating unit 38 36 is shown in FIG. 4 to be embedded in a part visible by the user of the circumferential wall of the second housing 14.

Please replace the paragraph which appears at page 5, lines 21-24 with the following amended paragraph:

The indicating unit 35 36 is shown in FIG. 5 to comprise a recess well 50 embedded in the circumference wall of the second housing 14, a first light-emitting diode 51 and a second light-emitting diode 52 arranged on the bottom of the recess well 50, and a smoke cover 53 covering the recess well 50.

Please replace the paragraph which appears at page 6, lines 13-14 with the following amended paragraph:

Further, the control unit 38 37 receives the electric signals which indicate that

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## BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will be better understood from the following detailed description when considered in connection with the accompanying drawings, wherein:

FIG. 1 is a perspective view of the headset according to the present invention viewing from the right hand side of the headset,

FIG. 2 is a perspective view of the headset according to the present invention viewing from the left hand side of the headset,

FIG. 3 is a block diagram of the headset according to the present invention,

FIG. 4 is an enlarged view of the leading edge of the microphone boom, and

FIG. 5 is a cross sectional view of the indicator.

## DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring now to FIGS. 1 to 5 of the drawings, there is shown a preferred embodiment of the all-in-one headset according to the present invention.

The all-in-one headset 10 is shown in FIGS. 1 and 2 as comprising a head band 11, a first housing 12 arranged at one end of the headband 11, a boom member 13 stretching forward from the first housing 12, a second housing 14 arranged at the leading edge of the boom member 13, and a battery housing 15 arranged at the other end of the head band 11.

As shown in FIG. 3, the all-in-one headset 10 according to the present invention electrically comprises a communication unit 31 for establishing radio contact with other persons, a microphone 32 for converting the user's voice into an electric signal transmitted to the communication unit 31, an ear speaker 33 for converting electric signal indicative of communication partners' voices received by the communication unit 31 into a sound, a battery 34 powering the communication unit 31, an operating panel 35 for outputting operation signals to the communication unit 31, a microcomputer 38 for controlling the communication unit 31 based on the operation signals output from the operating panel 35, an indicating unit 36 for showing the operating states of the communication unit 31, and a control unit 37 for controlling the indicating patterns of the indicating unit 37.

As shown in FIG. 3, the all-in-one headset 10 according to the present invention electrically comprises a communication unit 31 for establishing radio contact with other persons, a microphone 32 for converting the user's voice into an electric signal transmitted to the communication unit 31, an ear speaker 33 for converting electric signal indicative of communication partners' voices received by the communication unit 31 into a sound, a battery 34 powering the communication unit 31, an operating panel 35 for outputting operation signals to the communication unit 31, a microcomputer 38 for controlling the communication unit 31 based on the operation signals output from the operating panel 35, an indicating unit 36 for showing the operating states of the communication unit 31, and a control unit 37 for controlling the indicating patterns of the indicating unit 36.

The microphone 32 is housed in the second housing 14, arranged at the leading edge of the boom member. The ear speaker 33 is mounted on the inside wall of the first housing 12, and the operating panel 35 is mounted on the outside wall of the first housing 12. The battery 34 is housed in the battery housing 15 arranged at the other end on the head band 11.

The indicating unit 36 is shown in FIG. 4 to be embedded in a part visible by the user of the circumferential wall of the second housing 14.

As shown in FIG. 3, the communication unit 31 housed in the first housing 12 includes a modulator 41 modulating a sub carrier by the electric signal from the microphone 32, a transmitter 42 and a transmission antenna 43 transmitting the modulated sub carrier, a receiving antenna 44 and a receiver 45 receiving the sub carrier carrying the electric signal indicative of the communication partners' voice, and a demodulator 46 demodulating the electric signal indicative of the communication partners' voices from the sub carrier received by the receiver 45.

Further, the communication unit 31 includes a base band circuit 47 compressing the electric signal from the microphone 32 and expanding the electric signal demodulated by the demodulator 46, and an amplifier 48 amplifying the expanded electric signal.

On the operating panel 35, there are arranged a power button & indicator 61, a volume control button 62, a talk button 63, a page button 64, and a channel selection button 65.

The power button & indicator 61 is a button for powering on/off the communication unit 31, the microcomputer 38 and the control unit 37, and emits light in green during power on state. If the battery 34 requires recharging, the power button & indicator 61 emits light in red.

The volume control button 62 is a button for tuning level of the sound output from the ear speaker 33.

The talk button (T) 63 is a button pushed when the user communicates with communication partners belonging to one group, and the page button (P) 64 is a button pushed when the user communicates with communication partners belonging to another group.

The channel selection button 65 is a button for selecting one communication channel among a plurality of communication channels.

The indicating unit 36 is shown in FIG. 5 to comprise a recess well 50 embedded in the circumference wall of the second housing 14, a first light-emitting diode 51 and a second light-emitting diode 52 arranged on the bottom of the recess well 50, and a smoke cover 53 covering the recess well 50.

The first light-emitting diode 51 emits light in a certain color, for example, red, and the second light-emitting diode 52 emits light in another color, for example, green.

The operation of the all-in-one headset according to the present invention will be described hereinafter.

The following description will now be directed to the case that the user is assumed to be a working staff of a fast food restaurant having two lanes A and B, and the user is assigned to lane A.

In this case, the user wears the all-in-one headset on the user's head, after the user pushes the power button & indicator 61, and the power button & indicator 61 emits light in green to show power ON.

The user selects channel A as a communication channel by operating the channel selection button 65 on the operating panel 35, because the user is assigned to lane A.

The microcomputer 38 recognizes that channel A is selected with the channel selection button 65, and set the frequency of the sub carrier of the communication unit 31 as channel A.

The user pushes the talk button (T) 63 on the operating panel 35, when the user is going to communicate with patrons.

*Delete*  
 Duplication  
 1st paragraph  
 was not  
 Amended as  
 in 3/12/05  
 Amendment  
 page 2  
 2nd para.  
 is correct